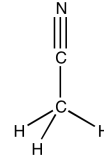


Identification

CH₃CN
M = 41,05 g/mol
CAS [75-05-8]
EC number: 200-835-2
Taric code: 2926 90 95


Synonyms

Methyl cyanide, Cyanomethane

Applications

chromatography, synthesis of organic products, solvents.

Specifications

assay (G.C.).....	min. 99,9 %	tin (Sn).....	max. 0,1 ppm
identity (IR-spectrum).....	passes test	zinc (Zn).....	max 0,01 ppm
density (20°/4°).....	0,779 - 0,783	residue on evaporation.....	max. 0,0002 %
colour (Hazen).....	max. 10	water (K.F.).....	max. 0,03 %
appearance.....	clear		
acidity.....	max. 0,0002 meq/g	liquid chromatography suitability	
alkalinity.....	max. 0,0001 meq/g	absorbance.....	passes test
cyanides (CN).....	max. 0,005 %		
aluminium (Al).....	max. 0,1 ppm	min. transmission/max. absorbance	
barium (Ba).....	max 0,01 ppm	in a 1,0 cm cell at	
boron (B).....	max. 0,02 ppm	wavelength:	T(%) A (AU)
cadmium (Cd).....	max 0,01 ppm	195 nm.....	70 % 0,155 AU
calcium (Ca).....	max. 0,3 ppm	200 nm.....	90 % 0,046 AU
chromium (Cr).....	max. 0,02 ppm	230 nm.....	98 % 0,009 AU
cobalt (Co).....	max. 0,02 ppm		
copper (Cu).....	max. 0,02 ppm	Microfiltered through membranes	
iron (Fe).....	max. 0,02 ppm	of pore diameter 0,22 µm	
lead (Pb).....	max. 0,1 ppm		
magnesium (Mg).....	max. 0,1 ppm		
manganese (Mn).....	max 0,01 ppm		
nickel (Ni).....	max. 0,02 ppm		

Physical data

- Density: 0,786 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -45,7 °C
- Boiling point: 81,6 °C
- Flash point: 2 °C
- Ignition temperature: 524 °C
- Vapour pressure: (20 °C) 97 hPa
- Refraction index: (n 20 °C) 1,3442
- Viscosity: (20 °C) 0,39 mPas
- Dipolar moment: (20 °C) 3,44 Debye
- Dielectric const.: (20 °C) 37,5
- Evap. heat: (81 °C) 833 KJ/kg
- Saturation conc.: (20 °C) 163 g/m³
- Expl. limit (upper): 17 Vol%
- Expl. limit (lower): 3,0 Vol%

Safety - GHS**Signal Word:** Danger**Hazard Statements:**

H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

H319: Causes serious eye irritation.

Precautionary Statements:

P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.

P241: Use explosion-proof electrical / ventilating / lighting / equipment.

P261: Avoid breathing dust / fume / gas / mist / vapours / spray.

P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

• LD 50 (oral, rat): 2730 - 3800 mg/kg

• MAK: 20 ml/m³, 34 mg/m³

• WGK: 2

• Poison class CH (Swiss): 2

Transport/storage

• ADR: 3 F1 II • UN 1648 • ACETONITRILE

• IMDG: 3 II • UN 1648 • ACETONITRILE

• IATA/ICAO: 3 II • UN 1648 • ACETONITRILE

• PAX: 305

• CAO: 307

• Store between 15°C and 25°C